

utilization permit key comprises a copy permit key, and transferring said digital data if said utilization permit key comprises a transfer utilization permit key.

--24. The method of claim 23, wherein a digital signature is attached to said digital data.--

--25. The method of claim 23, wherein at least one of a copyright control program for controlling copyrights of said digital data, copyright information about copyrights of said digital data and a copyright control message in using said digital data is used in addition to each of said permit keys.

--26. The method of claim 24, wherein at least one of a copyright control program for controlling copyrights of said digital data, copyright information about copyrights of said digital data and a copyright control message in using said digital data is used in addition to each of said permit keys.--

--27. The method of claim 25, wherein said copyright information is stored together with said digital data each time said digital data is stored, said copyright information is copied together with said digital data each time said digital data is copied, and said copyright information is transferred together with said digital data each time when said digital data transferred.--

--28. The method of claim 25, wherein history information for edit of said digital data is added to said copyright information in case said digital data

is edited, history information for copy of said digital data is added to said copyright information in case said digital data is copied, and history information for transfer of said digital data is added to said copyright information in case said digital data is transferred.

---

--29. The method of claim 26, wherein history information for edit of said digital data is added to said copyright information in case said digital data is edited, history information for copy of said digital data is added to said copyright information in case said digital data is copied, and history information for transfer of said digital data is added to said copyright information in case said digital data is transferred.--

--30. The method of claim 23, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--31. The method of claim 24, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--32. The method of claim 25, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--33. The method of claim 26, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--34. The method of claim 27, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--35. The method of claim 25, wherein said encrypted digital data is decrypted by said copyright control program.--

--36. The method of claim 25, wherein said copyright control program is encrypted.--

--37. The method of claim 26, wherein said copyright control program is encrypted.--

--38. The method of claim 27, wherein said copyright control program is encrypted.--

--39. The method of claim 28, wherein said copyright control program is encrypted.--

--40. The method of claim 29, wherein said copyright control program is encrypted.--

--41. The method of claim 25, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key.--

--42. The method of claim 26, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key.--

--43. The method of claim 27, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key.--

--44. The method of claim 28, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key.--

--45. The method claim 29, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key.--

--46. The method of claim 30, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key, further.--

--47. The method of claim 25, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said encrypted digital data from the database; and  
said utilization permit key is supplied from said key control center.--

--48. The method of claim 26, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.--

--49. The method of claim 27, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.--

*Cont*  
--50. The method of claim 28, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.--

--51. The method of claim 29, wherein at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.--

--52. The method of claim 30, wherein at least one of said copyright control program, said copyright information and said copyright control

message is supplied together with said encrypted digital data from the database, and

said utilization permit key is supplied from said key control center.--

53. The method of claim 25, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information or said copyright control message is supplied together with said utilization permit key from said key control center.--

54. The method of claim 26, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information or said copyright control message is supplied together with said utilization permit key from said key control center.--

55. The method of claim 27, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information or said copyright control message is supplied together with said utilization permit key from said key control center.--

--56. The method of claim 28, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information or said copyright control message is supplied together with said utilization permit key from said key control center.

--57. The method of claim 29, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information or said copyright control message is supplied together with said utilization permit key from said key control center.--

--58. The method of claim 30, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information or said copyright control message is supplied together with said utilization permit key from said key control center.--

--59. A method for controlling copyrights of digital data comprising the steps of:

supplying encrypted digital data from a database to a user;  
supplying a utilization permit key including a crypt key for said digital data from a key control center to said user, said utilization permit key comprising at least one of a display permit key for displaying said digital data, an edit permit key for editing said digital data, a storage permit key for storing said digital data, a copy permit key for copying said digital data and a transfer permit key for transferring said digital data; D

displaying said digital data if said utilization permit key comprises a display permit key, editing said digital data if said utilization permit key comprises an edit permit key, storing said digital data if said utilization permit key comprises a storage permit key, copying said digital data if said utilization permit key comprises a copy permit key, transferring said digital data if said utilization permit key comprises a transfer permit key;

decrypting said digital data encrypted when said digital data is displayed, decrypting said digital data when said digital data is edited;

encrypting said digital data again when said digital data is stored, encrypting said digital data again when said digital data is copied, encrypting said digital data again when said digital data is transferred.

--60. The method of claim 59, wherein a digital signature is attached to said digital data.--

+61. The method of claim 59, wherein at least one of a copyright control program for controlling copyrights of said digital data, copyright information about copyrights of said digital data and a copyright control message in using said digital data is used in addition to each of said permit keys.



--62. The method of claim 60, wherein at least one of a copyright control program for controlling copyrights of said digital data, copyright information about copyrights of said digital data and a copyright control message in using said digital data is used in addition to each of said permit keys.--

--63. The method of claim 61, wherein said copyright information is stored with said digital data each time when said digital data is stored, said copyright information is transferred together with said digital data each time said digital data is copied, and said copyright information is transferred together with said digital data each time when said digital data is transferred.--

--64. The method of claim 61, wherein history information for edit of said digital data is added to said copyright information in case said digital data is edited, history information for copy of said digital data is added to said copyright information in case said digital data is copied, and history information for transfer of said digital data is added to said copyright information in case said digital data is transferred.--

--65. The method of claim 63, wherein history information for edit of said digital data is added to said copyright information in case said digital data is edited, history information for copy of said digital data is added to said copyright information in case said digital data is copied, and history information for transfer of said digital data is added to said copyright information in case said digital data is transferred.--

--66. The method of claim 59, wherein said display permit key, said permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--67. The method of claim 60, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--68. The method of claim 61, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--69. The method of claim 62, wherein said display permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--70. The method of claim 64, wherein said display permit key, said edit permit key, said storage permit key, said copy permit key and said transfer permit key are encrypted.--

--71. The method of claim 66, wherein said encrypted digital data is decrypted by said copyright control program and also said decrypted digital data is encrypted again.--

--72. The method of claim 61, wherein said copyright control program is encrypted.--

--73. The method of claim 63, wherein said copyright control program is encrypted.--

--74. The method of claim 64, wherein said copyright control program is encrypted.--

--75. The method of claim 66, wherein said copyright control program is encrypted.--

--76. The method of claim 71, wherein said copyright control program is encrypted.--

*Cont.* --77. The method of claim 61, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said utilization permit key.--

--78. The method of claim 63, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said utilization permit key.--

--79. The method of claim 64, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said utilization permit key.--

--80. The method of claim 66, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said utilization permit key.--

--81. The method of claim 71, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said utilization permit key.--

--82. The method of claim 72, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said utilization permit key.--

--83. The method of claim 61, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.--

--84. The method of claim 63, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.--

--85. The method of claim 64, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.--

86. The method of claim 66, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.

87. The method of claim 71, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.

88. The method of claim 72, wherein at least one of said copyright control program, said copyright information and said copyright control message are supplied together with said encrypted digital data from the database; and

said utilization permit key is supplied from said key control center.

89. The method of claim 61, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key from said key control center.

--90. The method of claim 63, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key from said key control center.--

--91. The method of claim 64, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key from said key control center.--

--92. The method of claim 66, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key from said key control center.--

--93. The method of claim 71, wherein a part of said at least one of said copyright control program, said copyright information and said copyright

control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key from said key control center.--

--94. The method of claim 72, wherein a part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with the digital data encrypted from the database; and

the other part of said at least one of said copyright control program, said copyright information and said copyright control message is supplied together with said utilization permit key from said key control center.--